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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/682,519	09/13/2001	Yu Wang	040489-0177	2614
22428 75	90 01/25/2006		EXAMINER	
FOLEY AND LARDNER LLP SUITE 500			DONOVAN, LINCOLN D	
3000 K STREET NW			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007			2832	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		09/682,519	WANG ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Lincoln Donovan	2832				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence add	Iress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this cor D (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on	_•					
•	•	action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	4)⊠ Claim(s) <u>1-22,39 and 40</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	5) Claim(s) is/are allowed.						
•	6)⊠ Claim(s) <u>1-22 39-40</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examine	r.					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∋ 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[]	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT0	D-152.			
Priority u	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents						
	3. Copies of the certified copies of the prior	•	ed in this National S	Stage			
* 0	application from the International Bureau	` ''					
3	see the attached detailed Office action for a list of	or the certified copies not receive	a.				
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate	450)			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P	atent Application (PTO-	102)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103[a] which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 7-11, 14, 19-21 and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over van Oort [US 5,923,235] in view of Tang et al. [US 5,964,579]. van Oort discloses an open magnet assembly with a floor mount comprising:

- a first assembly mounted about a first longitudinally-extending and generally-vertically-aligned axis including:
 - at least one superconducting main coil [26] positioned around the axis; and
 - a vacuum enclosure [24] enclosing the at least one superconductive main coil;
- a second assembly mounted about a second longitudinally-extending and generally-vertically-aligned axis coaxially aligned with the first axis and spaced longitudinally apart from and disposed below the first assembly, the second assembly including:
 - at least one superconducting main coil [30] positioned around the axis; and
- a vacuum enclosure [28] enclosing the at least one superconductive main coil; and

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- at least one support beam [32] external to the first and second vacuum enclosures having a first end attached to the first assembly and a second end attached to the second assembly.

van Oort disclose everything claimed except for an isolating support apparatus supporting both assemblies from a floor.

Tang et al. discloses an vibration isolation system [figure 1] with a plurality of isolators [30] for a piece of machinery [10].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a vibration isolation system for a support structure of van Oort, as suggested by Tang et al., for the purpose of reducing vibration of the open magnet assembly.

Tang et al. disclose the vibration isolation system mounted on a floor assembly [24] supporting a support member [30] supporting the machinery away from the floor structure [figure 1].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the isolation support mounting design of Tang et al. in van Oort, as modified, for the purpose of isolating the device from the floor structure.

The specific footprint of the isolation system and its use as a retrofit would have been an obvious design consideration for the purpose of reducing space usage and providing isolation for existing equipment.

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Claims 2-4, 12-13, I 5-17 and 22 are rejected under 35 U.S.C. 103[a] as being unpatentable over van Oort, as modified, as applied to claims 1, 7-11, 14 above, and further in view of Ohsaki [US 6,202,492].

van Oort, as modified, discloses the instant claimed invention except for the isolators being adjustable and actively pneumatically controlled.

Ohsaki discloses a surface [6] being supported by adjustable actively controlled pneumatic isolators [4a-d, column 5, lines 1-12].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to the isolator design of Ohsaki for the isolators of van Oort, as modified, for the purpose of accommodating variations in the operating environment.

The specific frequencies, Q-factors, bandwidth, etc. of the control would have been obvious design considerations based on the specific application and environment of use.

Claims 5-6 and 18 are rejected under 35 U.S.C. 103[a] as being unpatentable over van Oort., as modified, as applied to claims 1 and 14 above, and further in view of Braun [US 4,781,363].

van Oort, as modified, discloses the instant claimed invention except for the use of balance weights on the isolators.

Braun discloses the use of balance weights [9] mounted on an isolator.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use balance weights on the isolators of van Oort, as modified, for the purpose of accommodating unexpected balance shifts.

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It would have been obvious to have the amount of weight applied be adjustable for the purpose of accommodating varying operating environments.

Response to Arguments

Applicant's arguments with respect to claims 1-22 and 39-40 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lincoln Donovan whose telephone number is 571-272-1988. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).